

Pollution Prevention Equipment Program (PPEP)



High Volume Low Pressure (HVLP) Paint Spray System Activity: NAS Willow Grove



HVLP paint spray systems atomize paint using large volumes of air at low pressures, delivering it at low velocities, that result in more paint applied to the work surface and less lost as overspray and blow back. Typical HVLP paint transfer efficiencies can be as high as 65% vs 30% of conventional applicators.

HVLP paint spray systems can use a wide variety of coatings, and varying paint cup sizes (1 qt. to 5 gal). The unit can be made of different base materials for compatibility with coatings used.

Benefits

The high paint transfer efficiencies result in a significant reduction of paint usage and waste generation

Man-hours and procurement costs are reduced as painting efficiency increases

Lower operational and disposal costs for the paint booth's particulate capturing system due to less overspray

Return on Investment and Break Even Point

\$1,202/yr

Less than 6 months

Status

Implemented at 23 installations as of the first quarter of FY98.